

## WEST Search History

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		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=AND</i>	
<input type="checkbox"/>	L1	neri.in. and fibronectin	14
<input type="checkbox"/>	L2	neri.in. and viti.in.	12
<input type="checkbox"/>	L3	(oncofetal or onco-fetal) near10 fibronectin	56

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- ☐ 1. [20040266025](#). 06 Feb 04. 30 Dec 04. Screening and treatment methods for prevention of preterm delivery. Hickok, Durlin, et al. 436/518; G01N033/543.
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- ☐ 2. [20040260072](#). 23 Jan 04. 23 Dec 04. Hydrophilic, thiol-reactive cyanine dyes and conjugates thereof with biomolecules for fluorescence diagnosis. Licha, Kai, et al. 530/409; 548/156 548/219 548/453 C07K014/47 C07D417/02 C07D413/02 C07D43/02.
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- ☐ 3. [20040258747](#). 26 May 04. 23 Dec 04. Tumor-targeted drug delivery systems and uses thereof. Ponzoni, Mirco, et al. 424/450; 424/93.2 A61K009/127 A61K048/00.
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- ☐ 4. [20040241752](#). 25 Jun 04. 02 Dec 04. Point of care diagnostic systems. Anderson, Emory V., et al. 435/7.1; 702/19 G01N033/53 G06F019/00 G01N033/48 G01N033/50.
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- ☐ 5. [20040230122](#). 14 Jun 04. 18 Nov 04. Ultrasound imaging. Eriksen, Morten, et al. 600/458; 424/9.51 A61B008/14.
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- ☐ 6. [20040214247](#). 23 Apr 04. 28 Oct 04. Novel fibronectin epitopes and proteinaceous molecules capable of binding said epitopes. De Kruif, Cornelis Adriaan, et al. 435/7.23; 424/146.1 530/388.26 G01N033/574 A61K039/395 C07K016/40.
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- ☐ 13. [20030087318](#). 12 Sep 02. 08 May 03. Antibodies against an extracellular matrix complex and their use in the detection of cancer. Lallone, Roger L.. 435/7.23; 435/7.93 G01N033/574 G01N033/53 G01N033/537 G01N033/543.
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- ☐ 16. [20020110833](#). 20 Dec 01. 15 Aug 02. Methods to diagnose a required regulation of trophoblast invasion. Caniggia, Isabella, et al. 435/7.1; 424/145.1 514/12 G01N033/53 A61K039/395 A61K038/17.
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(oncofetal or onco-fetal) near10 fibronectin	56

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- ☐ 1. [20040014090](#). 05 Mar 03. 22 Jan 04. Encoded self-assembling chemical libraries (ESACHEL). [Neri, Dario](#), et al. 435/6; 530/395 C12Q001/68 C07K014/00.
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- ☐ 5. [20030045681](#). 28 Apr 99. 06 Mar 03. SPECIFIC BINDING MOLECULES FOR SCINTIGRAPHY, CONJUGATES CONTAINING THEM AND THERAPEUTIC METHOD FOR TREATMENT OF ANGIOGENESIS. [NERI, DARIO](#), et al. 530/350; C07K001/00 C07K014/00 C07K017/00 C07K016/00 C12P021/08.
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- ☐ 9. [US20030176663A](#). New antibody, useful for preparing a composition for diagnosing or treating diseases characterized by vascular proliferation such as diabetic retinopathy, age-related macular degeneration or tumors. [BIRCHLER, M](#), et al. A61K039/395 A61K051/00 C07K016/30.
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File: PGPB

Jan 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040014090  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040014090 A1

TITLE: Encoded self-assembling chemical libraries (ESACHEL)

PUBLICATION-DATE: January 22, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Neri</u> , Dario	Zurich		CH	
Melkko, Samu	Zurich		CH	

APPL-NO: 10/ 382107 [PALM]  
DATE FILED: March 5, 2003

## RELATED-US-APPL-DATA:

Application is a non-provisional-of-provisional application 60/362599, filed March 8, 2002,

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
WO	PCT/EP02/04153	2002WO-PCT/EP02/04153	April 15, 2002

INT-CL: [07] C12 Q 1/68, C07 K 14/00

US-CL-PUBLISHED: 435/6; 530/395

US-CL-CURRENT: 435/6; 530/395

REPRESENTATIVE-FIGURES: 1

## ABSTRACT:

The invention concerns a chemical compound comprising a chemical moiety (p) capable of performing a binding interaction with a target molecule (e.g. a biological target) and further comprising an oligonucleotide (b) or functional analogue thereof. In a first embodiment according to the invention, the chemical compound is characterized in that the oligonucleotide (b) or functional analogue comprises at least one self-assembly sequence (b1) capable of performing a combination reaction with at least one self-assembly sequence (b1') of a complementary oligonucleotide or functional analogue bound to another chemical compound comprising a chemical moiety (q). In a second embodiment according to the invention, the chemical compound which comprises a coding sequence (b1) coding for the identification of the chemical moiety (p) is characterized in that the chemical compound further comprises at least one self-assembly moiety (m) capable of performing a combination reaction with at least one self-assembly moiety (m') of a similar chemical compound comprising a chemical moiety (q). The invention comprises corresponding libraries of chemical compounds as well as methods of biopanning of target molecules and of



identifying such targets.

ASSOCIATED APPLICATION DATA

[0001] This application claims priority of the U.S. Provisional Application No. 60/362,599 filed on Mar. 8, 2002 and of the international application PCT/EP 02/04153 filed on Apr. 15, 2002.

## Search Results - Record(s) 1 through 12 of 12 returned.

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- ☐ 1. [20030176663](#). 18 Dec 02. 18 Sep 03. Specific binding molecules for scintigraphy. [Neri, Dario](#), et al. 530/388.22; 424/1.49 424/143.1 530/391.1 A61K051/00 A61K039/395 C07K016/30.
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- ☐ 2. [20030045681](#). 28 Apr 99. 06 Mar 03. SPECIFIC BINDING MOLECULES FOR SCINTIGRAPHY, CONJUGATES CONTAINING THEM AND THERAPEUTIC METHOD FOR TREATMENT OF ANGIOGENESIS. [NERI, DARIO](#), et al. 530/350; C07K001/00 C07K014/00 C07K017/00 C07K016/00 C12P021/08.
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- ☐ 7. [US20030176663A](#). New antibody, useful for preparing a composition for diagnosing or treating diseases characterized by vascular proliferation such as diabetic retinopathy, age-related macular degeneration or tumors. BIRCHLER, M, et al. A61K039/395 A61K051/00 C07K016/30.
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- ☐ 8. [WO 200183816A](#). Detecting tumors including occult tumors in individual comprises amplifying nucleic acid of bodily fluid sample taken from individual to detect mRNA encoding extracellular matrix component. [NERI, D](#), et al. C12Q001/68.
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- ☐ 9. [WO 200162800A](#). An antibody, with specific affinity for a characteristic epitope of the ED-B domain of fibronectin for the treatment of diseases characterized by vascular proliferation. BIRCHLER, M, et al. A61K039/395 A61K051/00 A61K051/10 A61P027/02 A61P035/00 A61P043/00 C07C063/06 C07K016/18 G01N033/53 G01N033/574 G01N033/577.
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L3: Entry 1 of 56

File: PGPB

Dec 30, 2004

DOCUMENT-IDENTIFIER: US 20040266025 A1

TITLE: Screening and treatment methods for prevention of preterm delivery

Summary of Invention Paragraph:

[0127] The antibodies can be raised and purified using methods known to those of skill in the art or obtained from publicly available sources. For example, monoclonal antibody FDC-6 (deposited at the American Type Culture Collection as accession number ATCC HB 9018; see, e.g., U.S. Pat. No. 4,894,326; see, also, Matsuura et al. (1985) Proc. Natl. Acad. Sci. U.S.A. 82:6517-6521; see, also, U.S. Pat. Nos. 4,919,889, 5,096,830, 5,185,270, 5,223,440, 5,236,846, 5,281,522, 5,468,619 and 5,516,702), which is raised against whole molecule onco-fetal fibronectin from a tumor cell line, can be used.

First Hit

L3: Entry 2 of 56

File: PGPB

Dec 23, 2004

DOCUMENT-IDENTIFIER: US 20040260072 A1

TITLE: Hydrophilic, thiol-reactive cyanine dyes and conjugates thereof with biomolecules for fluorescence diagnosis

Summary of Invention Paragraph:

[0039] Thus known from the prior art are, e.g., antibodies that are directed against molecules that are expressed intensively in the angiogenetically active tissue and only to a very low level in the adjoining tissue (see WO 96/01653). Of special interest are antibodies that are against the receptors for vascular growth factors, receptors with endothelial cells to which inflammation mediators bind, and matrix proteins that are expressed specifically in the formation of new vessels. Preferred are other antibodies or antibody fragments that are directed against the matrix protein EDB-fibronectin and conjugates therefrom according to the invention. EDBfibronectin, also known as oncofetal fibronectin, is a splice variant of the fibronectin, which is formed specifically around newly formed vessels in the process of angiogenesis. Especially preferred are antibodies L19, E8, AP38 and AP39 against the EDB-fibronectin (Cancer Res 1999, 59,347; J Immunol Meth 1999, 231, 239; Protein Expr Purif 2001,21, 156).

DOCUMENT-IDENTIFIER: US 20040258747 A1

TITLE: Tumor-targeted drug delivery systems and uses thereof

Detail Description Paragraph:

[0087] In another specific embodiment, the NGR-containing molecule binds to oncofetal fibronectin. The expression of the oncofetal fragment of fibronectin (Fn-f) has also been found to be increased during angiogenesis and has been suggested as a marker of tumor angiogenesis. In one embodiment, the NGR-containing molecule is an antibody or fragment thereof to the oncofetal ED-B domain of fibronectin. The preparation of such an antibody and its conjugation with IL-12 is described in Halin et al (2002) Nature Biotechnology 20:264-269, which is incorporated by reference herein in its entirety.

**TITLE:** Point of care diagnostic systems

[0128] The antibodies may be raised and purified using methods known to those of skill in the art or obtained from publicly available sources. For example, monoclonal antibody FDC-6 (deposited at the American Type Culture Collection as accession number ATCC HB 9018; see U.S. Pat. No. 4,894,326; see, also, Matsuura et al. (1985) Proc. Natl. Acad. Sci. U.S.A. 82:6517-6521; see, also, U.S. Pat. Nos. 4,919,889, 5,096,830, 5,185,270, 5,223,440, 5,236,846, 5,281,522, 5,468,619 and 5,516,702), which is raised against whole molecule onco-fetal fibronectin from a tumor cell line, may be used.

[0326] The antibody conjugated to the latex particles is mouse monoclonal antibody specific for fetal fibronectin. The antibody (FDC-6 or A137 monoclonal) is raised against whole molecule onco-fetal fibronectin from a tumor cell line. The antibody is produced as ascites at a contract manufacturer and is purified by Protein G and dialyzed into PBS buffer.

**TITLE: Novel fibronectin epitopes and proteinaceous molecules capable of binding said epitopes**

[0102] Kaczmarek J, Castellani P, Nicolo G, Spina B, Allemanni G, Zardi L. Distribution of oncofetal fibronectin isoforms in normal, hyperplastic and neoplastic human breast tissues. Int J Cancer. Oct. 1, 1994;59(1):11-6.

[0105] Mandel U, Hamilton Therkildsen M, Reibel J, Sweeney B, Matsuura H, Hakomori S, Dabelsteen E, Clausen H. 1992. Cancer-associated changes in glycosylation of fibronectin. Immunohistological localization of oncofetal fibronectin defined by monoclonal antibodies. APMIS 100: 817-826.

[0107] Matsuura H, Hakomori S. 1985. The oncofetal domain of fibronectin defined by monoclonal antibody FDC-6: Its presence in fibronectins from fetal and tumor tissues and its absence in those from normal adult tissues and plasma. Proc. Natl. Acad. Sci. USA 82: 6517-6521.

[0108] Matsuura H, Takio K, Titani K, Greene T, Lavery S B, Salyan M E K, Hakomori S. 1988. The oncofetal structure of human fibronectin defined by monoclonal antibody FDC-6. J. Biol. Chem. 263: 3314-3322.

[0109] Midulla M, Verma R, Pignatelli M, Ritter M A, Courtenay-Luck N S, George A J. Source of oncofetal ED-B-containing fibronectin: implications of production by both tumor and endothelial cells. *Cancer Res.* Jan. 1, 2000;60(1):164-9.



**TITLE:** Method for the diagnosis and differential diagnosis of neurological diseases

[0392] Mariani G., Lasku A., Pau A., Villa G., Motta C., Calcagno G., Taddei G. Z., Castellani P., Syrigos K., Dorcaratto A., Epenetos A. A., Zardi L., Viale G. A. (1997) A pilot pharmacokinetic and immunoscintigraphic study with the technetium-99m labeled monoclonal antibody BC-1 directed against oncofetal fibronectin in patients with brain tumours. *Cancer* 15: 2484-2489.

## First Hit

File: PGPB

May 8, 2003

DOCUMENT-IDENTIFIER: US 20030087318 A1

TITLE: Antibodies against an extracellular matrix complex and their use in the detection of cancer

Summary of Invention Paragraph:

[0005] Several studies have been directed toward identifying unique forms of extracellular matrix proteins associated with malignant tumor growth. For example, onco-fetal forms of collagen type I, fibronectin, and fibrinogen have been identified and characterized. However, such assays require solid tissue biopsy material and, therefore, are impractical to institute as a routine diagnostic assay.

DOCUMENT-IDENTIFIER: US 20020110833 A1

TITLE: Methods to diagnose a required regulation of trophoblast invasion

Detail Description Paragraph:

[0185] 27. Feinberg R F, Kilman H J, Locwood C J. 1991 Is oncofetal fibronectin a trophoblast glue for human implantation? Am. J. Pathol. 138: 537-543.

Detail Description Paragraph:

[0187] 29. Feinberg R F, Kliman H J, Wang C-L. 1994. Transforming growth factor-b stimulates trophoblast oncofetal fibronectin synthesis in vitro: implications for trophoblast implantation in vivo. J.Clin. Endocrinol Metab. 78: 1241-1248.

Detail Description Paragraph:

[0188] 30. Bischof P, Haenggeli L, and Campana A. 1995. Gelatinase and oncofetal fibronectin secretion is dependent on integrin expression on human cytotrophoblasts. Molecular Human Reproduction. 10: 734-742.